

ABSTRACT

A cartilage therapeutic composition is developed for clinical transplantation into articulation genu (knee joints) or ankle joints. It has clinical significance for symptomatic cartilage defects of the femoral condyle (medial, lateral, or trochlear) and bone cartilage defects of the talus (anklebone) in human or animal hosts, The cartilage therapeutic composition comprises a mixture of components of chondrocytes isolated and expanded or differentiated from a host such as a human or animal, and thrombin and a fibrinogen matrix containing fibrinogen. An application of the cartilage therapeutic composition is that a mixture of thrombin, chondrocyte components and a fibrinogen matrix is injected into a cartilage defect region followed by solidification therein. It provides rapid healing and effective regeneration of cartilage without surgical operation. It has the merits of safety and simplicity by allowing the use of an arthroscope for transplantation.